

CLAIMS

What is claimed is:

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1. A method of providing location-dependent services information to a mobile station, the mobile station being capable of short range communication, comprising the steps of:

5 determining whether the mobile station is within an operating range of a short range communication beacon for effecting wireless communication between the mobile station and the beacon;

establishing a communication link between the mobile station and the beacon if it is determined that the mobile station is within the operating range of the beacon;

10 activating a services access key on the mobile station for transmitting a short range wireless communication query to the beacon for requesting location-dependent services information pertaining to a location of the mobile station; and

transmitting, from the beacon to the mobile station in response to the mobile station query, location-dependent services information.

15 2. The method of claim 1, wherein said transmitted location-dependent services information comprises categories of services information.

20 3. The method of claim 2, further comprising the step of selecting, by using function keys on the mobile station, desired information from the categories of information.

4. The method of claim 1, wherein the mobile station comprises a Bluetooth transceiver.

5. The method of claim 4, wherein the beacon comprises a Bluetooth transceiver.

6. The method of claim 1, wherein said transmitted location-dependent services information comprises a text message displayed on a display of the mobile station.

7. The method of claim 1, wherein the mobile station comprises a mobile phone.

8. The method of claim 1, wherein the mobile station contains a memory and wherein the mobile station is capable of communicating with a base transceiver station, said method further comprising the steps of:

broadcasting location information to the mobile station over the base transceiver station broadcast channel;

storing the location information in the mobile station memory;

sending a request along with the stored memory location from the mobile station to a remote service provider for location-dependent services information concerning services

pertaining to the location information if it is determined that the mobile station is not within the operating range of the beacon; and

transmitting, from the service provider to the mobile station, location-dependent services information.

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9. The method of claim 8, wherein the step of sending a request to a remote service provider comprises using one of SMS and WAP.

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10. The method of claim 8, wherein the location information is provided via a GPS system.

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11. The method of claim 8, wherein the step of broadcasting comprises broadcasting plain language location information identifying the geographic location of the base station.

12. The method of claim 11, wherein said step of transmitting from the SMS provider comprises responding to the short message.

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13. A system for providing location-dependent services information to a mobile station, the mobile station being capable of short range communication, comprising:

a mobile station including at least a short range transceiver and a service access key, said mobile station located within an operating range of a short range transceiver of a short range communication beacon;

5 said service access key of the mobile station being selectable for requesting location-dependent services information pertaining to a location of the mobile station, and;

said short range transceiver of the mobile station being capable of sending a request for location-dependent services information and receiving a reply from the short range transceiver of the short range communication beacon in response to the request for location-dependent services.

10 14. The system of claim 13, wherein said transmitted location-dependent services information comprises categories of services information;

15 15. The system of claim 14, further comprising means for selecting, by using function keys on the mobile station, desired information from the categories of information.

16. The system of claim 13, wherein the mobile station comprises a Bluetooth transceiver.

20 17. The system of claim 16, wherein the beacon comprises a Bluetooth transceiver.

18. The system of claim 13, wherein said transmitted location-dependent services information comprises a text message displayed on a display of the mobile station.

5 19. The system of claim 13, wherein the mobile station comprises a mobile phone.

20. The system of claim 13, wherein the mobile station contains a memory and is capable of communicating with a base transceiver station, said system further comprising:

10 means for broadcasting to the mobile station over the base transceiver station broadcast channel, location information;

means for storing the location information in the mobile station memory;

15 means for sending a request along with the stored memory location information from the mobile station to a remote service provider for location-dependent services information concerning services pertaining to the location information; and

means for transmitting, from the service provider to the mobile station, location-dependent services information.

20 21. The system of claim 20, wherein said means for sending a request from the mobile station to the remote service provider comprises using one of SMS and WAP.

22. The system of claim 21, wherein the location information is provided via a GPS system.

23. The system of claim 20, wherein said broadcasting means comprises means for broadcasting plain language location information identifying the geographic location of the base station.

24. A mobile station, comprising: an access key for requesting location based services.

25. The mobile station of claim 24, further comprising;

a processor;

a memory unit;

a short range transceiver enabling short range communication;

a network transceiver enabling communication in a mobile network;

an output device for outputting received content;

software means operative on the processor for;

maintaining in the memory unit a database including a communication response value and a threshold value and at least one predetermined message requesting for location-dependent services usable for short range communication and at least one another

predetermined message requesting for location-dependent services usable for different type of communication;

starting short range communication in response to selecting the service access key using the predetermined message requesting for location-dependent services usable for short range communication;

periodically scanning the value of the communication response; and  
if the communication response value exceeds the threshold value, starting communication using the predetermined message requesting for location-dependent services usable for different type of communication.

26. The mobile station of claim 25, wherein the short range transceiver enabling short range communication comprises a Bluetooth transceiver.

27. The mobile station of claim 25, wherein the communication response value exceeds the threshold value if the response for location-based services in short range communication is not received.

28. The mobile station of claim 25, wherein current location information is inserted along with the predetermined message requesting for location-dependent services usable for different type of communication.

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29. The mobile station of claim 28, wherein the current location information is provided via a GPS system.

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